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#### MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

Monthly Activities Report of the Air Quality Bureau

STATE DOCUMENTS COLLECTION

June, 1979

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# Highlights:

Most of the staff attended an EPA training course on the control of particulate emissions which was held in Helena June 12-15.

A person was hired for the Environmental Specialist I vacancy.

Two staff members attended the annual Air Pollution Control Association annual meeting in Cincinnati, Ohio.

## 2. Ambient Air Quality Standards:

- a. Standards Exceeded: Due to the vacancy in the Monitoring Section, this information is not available for June.
- b. Air Stagnation Advisories: None in June
- c. Laboratory Status:

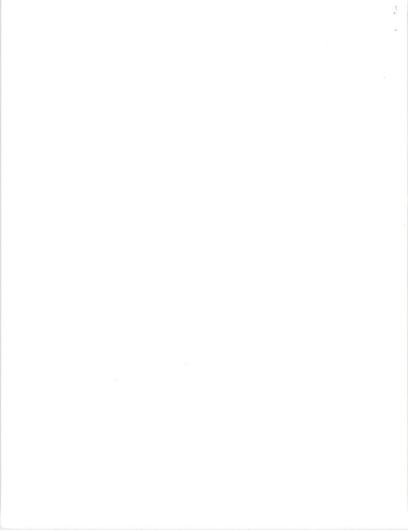
Total Determinations for Month 1326
Total Samples for Month 347

Total Determinations for FY 79 25,234
Total Samples for FY 79 4.789

# 3. Permits and Tax Credits:

a. Construction Permits - Applied for

Department of Highways, Carbon County, hot mix plant Francis Tindall, Glacier Co., crushers Rehbein Contracting, Glacier Co., drum mixer and crushers R. J. Studer & Sons, Gallatin Co., Sweet Grass Co., crusher U. S. Gypsum, Lewistown, baghouse, and dust collecter Washington Construction, Mineral, Sweet Grass and Big Horn Cos., crushers Wickens Brothers, Sanders Co., crusher Clark Brothers Contractors, Missoula and Ravalli Cos., crusher Clark Brothers Contractors, Mineral Co., crusher Gus Albert, Contractor, Sheridan Co., crusher McIntyre Construction, Pondera Co., gravel crusher B & N Construction, Inc., Glathead and Sanders Cos., crusher Dugdale Construction, Butte, batch plant Shell Oil, Richland Co., plant equipment



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## 3. Construction Permits, Applied for, Continued

Gus Albert, Dawson Co., batch plant
Champion Building Products, Darby, bag filter
Wickens Brothers, Fergus Co., crusher
Kaiser Cement, Jefferson, dry process addition to cement manufacturing
facility
Baltrusch Construction, Blaine, Hill Cos., crushers

### Approved in June:

Rehbein Contractors, Mineral County, asphalt plant
Rehbein Contractors, Missoula Co., mixer
Century Paving, Sheridan, Daniels, Musselshell, Chouteau and Fergus counties,
hot mix dryer
Zook Construction, crushers
Department of Highways, Fergus Co., hot mix plant
Dept. of Highways, Custer Co., hot mix plant
Empire Sand & Gravel, Big Horn, crushers and batch plant
Peter Kiewit & Sons, North of Babb, portable crusher
Rehbein Contracting, Mineral Co., asphalt mixer
R. J. Studer & Sons, Carbon Co., crusher
Baltrusch Construction, Blaine Co., gravel crusher

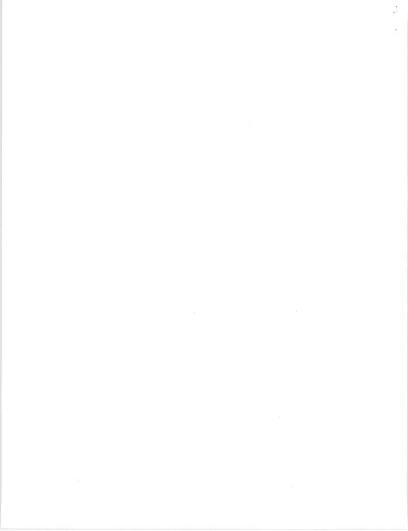
c. Tax Credits: None in June

### Variance Status:

#### a. Current

Anaconda Company, variance from  $\mathrm{SO}_2$  emissions at copper smelter, expires June 30, 1979.

ASARCO, Rule 16-2.14(1)-S1470(2), Sulfur Oxide Emissions applicable to lead-zinc complex, final compliance due June 30, 1979.



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## 5. Enforcement Actions:

#### a. Citations:

Willow Creek Lumber, Livingston, no thermocouple, Wood Waste Burner rule 16-2.14(1)-514030

Burkland Studs, Livingston, opacity, Wood Waste Burner 16-2.14(1)-S14030

Spring Creek Forest Products, Judith Gap, permit violation

- b. Notice of Violations None
- c. Order for Corrective Actions None
- d. Court Action None

#### 6. Tepee Burner and Open Burning:

Tenee Burners - number in operation: 20

Open Burning Permits Issued:

Kalispell	155	Sanders Co.	44
Cascade County	7	Yellowstone Co.	34
Lake County	45	Rest of State	569
Missoula Co.	7	Total	861

#### Source Tests Performed:

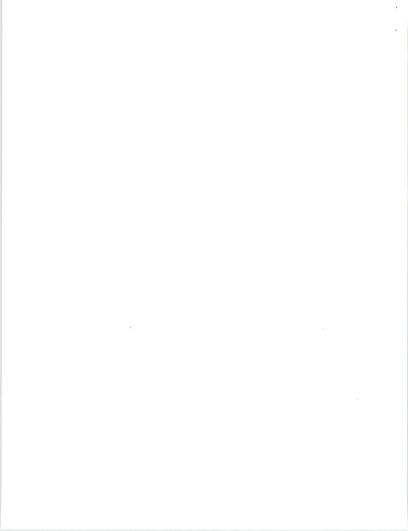
- a. Agency Source Tests None
- b. Non-agency source tests: None

### 8. Field Investigations:

Brand S Lumber, Livingston, inspection
Willow Creek Lumber, Livingston, inspection, Citation issued
Park Lumber, Livingston, inspection
Burkland Studs, Livingston, inspection, Citation issued
Brand S Lumber, Lewistown, inspection
George Berg Lumber, Lewistown, variance inspection
U. S. Gypsum, Lewistown, inspection
Spring Creek Forest Products, Judity Gap, inspection, Citation issued
Park Lumber, Livingston, inspection
Castle Mountain Lumber, White Sulphur Springs, inspection

#### 9. Complaints:

Flathead Co. asphalt plant, Kalispell, dust, scrubber pump out, shut down Sewage Treatment Plant, Helena, odor, referred to Water Quality (3) Exxon, Billings, black smoke, investigation
Kaiser Cement, Helena, white plume, lost bag in baghouse, will repair C & C Plywood, Kalispell, particulate, investigation
Caird Engineering, Helena, smoke, investigation



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## 9. Complaints, Continued

Equity Grain Elevator, Kalispell, dust, investigate on next trip Lewis & Clark County, Kier Road, dust, referred to county commissioners Exxon, Billings, smog, investigated Rocky Mountain Crushing, Anaconda, dust, investigation Stoltze-Conner, Darby, smoke, investigation

## 10. Data Processing Services:

- a. Ambient Data Summary
- b. Emission Inventory Status no significant activities
- c. Prevention of Significant Deterioration:

Met on June 4 with Flathead Indian Reservation officials to discuss the Bureau's help on the redesignation analysis

d. Modeling - no significant activities

## 11. Environmental Impact Statements:

Work is proceeding on the final Ambient Air Quality Standards EIS. This should be completed by September.

## 12. Status of Studies, Contracts and Reports:

Poplar River Study continuing to operate. Second year report will be done in July.

Flathead Environmental Study continuing to operate. First Year report due in August.

MAPS Meteorology studies continuing to operate. First year summary report due in July.

MAPS Emission Inventory contract with MRI terminated.

MAPS Historical Emission Inventory report being written.

New contracts completed for counties to administer open burning programs.

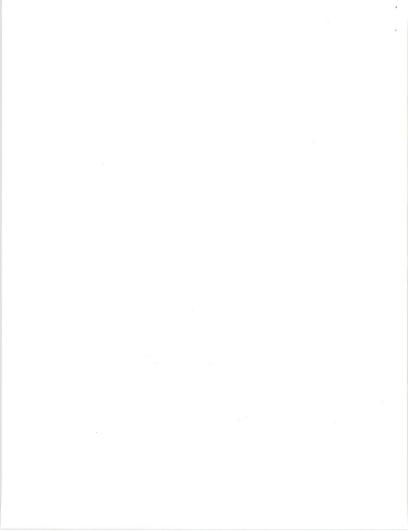
MAPS monitoring in Billings to hire a new operator - will begin work in July.

# 13. <u>Schools and Training:</u>

Smoke School held on June 8. EPA Training Class "Control of Particulate Emissions" attended by all staff members in Helena.

# 14. Public Hearings and Meetings:

a. Public Hearings Held: None in June



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## 14. Public Hearings and Meetings, Continued

### b. Meetings attended:

Olsen-Elliott, Contractors, Helena, regarding DESPUR (fugitive dust study)
Brand S Lumber, Helena, regarding Order to Take Corrective Action Flathead Indian Reservation PSD request, Helena
APCA meeting. Cincinnati

### c. Intra-staff meetings:

staff meetings MAPS staff meetings Staff meeting regarding permits Staff meeting regarding emtsoion inventory Staff meeting regarding emission inventory

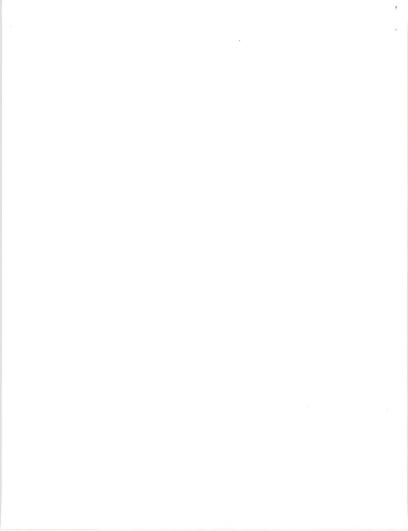
## 15. Public Information Requests:

New rules were printed and sent to those requesting them Information on air quality in general was sent to school students for term papers Clean Air Act of Montana is being revised and will be printed and sent to those persons requesting; will also be handed out to industries on routine inspection trips

There are still a few requests for the Draft EIS on ambient standards Several requests were made for the 1977 Annual Summary on Air Quality Several requests were made for the Poplar River Report. These were all mailed out.

# 16. Other:

The Bureau's Network Review has been drafted and commented upon; the final version was written in June and submitted to EPA for their approval. Copies will be printed and will be available for distribution to the interested persons and general public.



#### MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

## MONTHLY SUMMARY OF AIR QUALITY DATA

May 1979 Page 1 of 2

Units: microgram/m<sup>3</sup> Pollutant: Total Suspended Particulate HIGH READING AREA ARITHMETIC AVER. Year-to Running Year-to-No. of Current AQCR Site Location Comments Month Date 140 Morton-Decker 79 79 5 Big Horn Co. 52 100 20 Warren Ranch 52 Big Horn Co. KGHL Billings 65 69 155 41 5 City Hall Billings Grand Ave. Sch. 113 288 2RR 82 5 111 302 302 80 Billings exc Fed Sec Sto Central Park 236 246 246 66 5 Billings Laurel Jr. High 72 81 111 40 5 Laurel Hospital Roof 145 141 58 145 51 5 Great Falls Fire Sta. #1 Great Falls 110 189 189 91 111 111 42 5 Kiwanis Park Great Falls 84 142 Hiway Jct. Anaconda Lincoln School 303 49 95 303 5 Anaconda Floral Park 80 112 112 57 5 Butte Butte McKinley Res. Granite Co. Dr. Canty Res. Granite Co. 5 95 97 142 46 181 181 67 5 85

	AREA	HIGH	READING			TIC AVER				
VQCR	Site Location	Current Month	Year-to -Date	Running Year	Year-to -Date	No. of Mons. of Data	c	ости	nts	
142	Greeley School Butte	144	196	196	91	5				
	Hebgen Park Butte	155	225	225	77	5	1 exc	Fed	Sec	St
	Tierney Res. Silver Bow Co.	75	80	81	37	5				
	Microwave Jefferson Co.	62	89	101	37	5				
	212 E. Pacific East Helena	170	170	201	79	5				
	Cogswell Bldg. Helena	82	211	211	63	5				1
143	Lame Deer Rosebud Co.	20	20	34	6	5				
	Lindsay Dawson Co.	52	. 52	52	18	5				
	Fort Peck McCone Co.	61	61	61	12	5				
	BN Site Colstrip	82	82	138	25	5	1			
	McRae Site Colstrip	48	48	48	16	5				
	Border Site Scobey	37	.37	80	12	5				
144	Anders Res. Col. Falls	375	375	375	133	5	2 exc 3 exc			
	Trailer NAAC Col. Falls	44	63	63	26	5				
	Ronan Lake Co.	147	168	170	77	5				

Pollutant: Total Suspended Particulate

Units microgram/m<sup>3</sup>

Pollutant: Respirable Partic

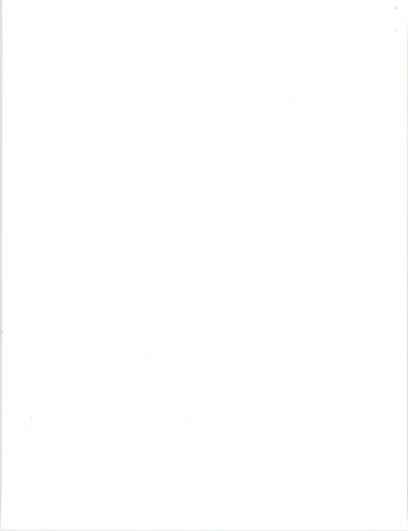
Oichotomous - sampler Units: micrograms/m3

	AREA	HIGH RE				IC AVER.	
AQCR	Site Location	Month	Year- to-Date	Running Year		No. of Mons. of Data	Comments
144	Polson Lake Co.	149	149	149	54	4	
- [	Libby-Brown Lincoln Co.	610	610	1384	229	5	4 exc Fed Pri St
-	Kalispell-Strom Flathead Co.	118	343	343	98	5	
ļ	Courthouse Roof	167	265	265	94.7	5	exc Fed Sec St
	Lion's Park Missoula	134	419	419	108.2	5	
	Rose Park Missoula	122.6	317.3	317.3	92.2	4	
	Hoerner Wald.#1 Missoula Co.	78	118	118	40.8	5	
	Hoerner Wald.#2 Missoula Co.	56.5	157.7	201	42.2	5	
	Hoerner Wald.#3 Missoula Co.	97	97	124.8	36.2	5	
	Kalispell Airpo Flathead Co.	t 74	120	120	57	4	

AREA		HIGH READING			ARITHME	TIC AVER	
aqcr	Site Location	Current Month	Year- to-Date	Running Year	Year- to-Date	No. of Mons. of Data	Comments
140	Central Park Billings Coarse fine						
141	Kiwanis Park Great Falls coarse fine Lincoln School Anaconda coarse fine		Oata un	vailable	at time	of repor	t
	Hebgen Park Butte coarse fine						
	Floral Park F.S. Butte coarse fine						
143	Border Site Scobey coarse fine						
144	Lion's Park Missoula coarse fine Courthouse Roof Missoula						

coarse fine Kalispell Airport Flathead Co. coarse fine

<sup>\* -</sup> data unavailable at time of report.



# MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

# MONTHLY SUMMARY OF AIR QUALITY DATA

May 1979 Page 2 of

	AREA	HIGH	READING		ARITHME	TIC AVER.			AREA	Т
AQCR	Site Location	Current Month	Year-to	Running Year	Year-to Date	No. of Mons. of Data	Comments	AQCR	Site Location	Ct Mc
140	Carbon Monoxide Fairgrounds Billings			***				140	Nitrogen Oioxide Central Park Billings	F
141	Great Falls			***				142	Lincoln School	
142	Alpine West Butte	2.5	16.0	16.0	1.26	5		1.1	Hebgen Park Butte	ŀ
144	Lincoln School Anaconda Lion's Park Missoula	3.8	24.3	24.3	3.15	4			Lion's Park Missoula Sulfur Oloxide	
142	Hydrocarbons Hebgen Park Butte			<b>-</b>				140	Central Park Billings Lockwood School	
144	Lincoln School Anaconda			-					Billings Laurel Farm Laurel	
144	Missoula Ozone							1 1	East Stack East Helena	-
140	Central Park Billings	0.094	0.094	0.110	0.023	5			Microwave East Helena Broudy Ranch	
142	Lincoln School Anaconda	0.062	0.062	0.062	0.037	5		11	East Helena Hiway Jct.	
	Hebgen Park Butte	0,064	0.068	0.077	0.042	5			Anaconda Mill Creek	
144	Lion's Park Missoula								Anaconda Lincoln School Anaconda Hebgen Park	

	AREA	HIGH	READING		ARITHME	FIC AVER.	
AQCR	Site Location	Current Month	Year-to -Date	Running Year	Year-to -Date	No. of Mons. of Data	Comments
140	Nitrogen Dioxide Central Park						
	Billings Lincoln School Anaconda Hebgen Park	0.018	0.035	0.035	.004	5	
	Butte Lion's Park						
	Missoula Sulfur Oioxide Central Park	0.065	0.225	0.225	0.013	5	
	Billings Lockwood School	0.190	0.350	0.350	0.010	5	
	Billings Laurel Farm Laurel	0.24	0.74	0.74	0.046	5	
142	East Stack East Helena Microwave						
	East Helena Broudy Ranch	ļ				$\sqcup$	
	East Helena Hiway Jct. Anaconda	1.20	2.30	2.75	0.002	5	
	Mill Creek Anaconda	1.36	1.62	1.62	0.036	5	
	Lincoln School Anaconda	0.93	1.03	1.03	0.03	5	
	Hebgen Park Butte	0.026	0.092	0.092	0.009	5	

<sup>\*\*\* -</sup> site discontinued.

\* - data unavailable at time of report.

Pollutante	Miscel <sup>®</sup>	laneous	Indi	cators

Units

AREA		HIGH R				IC AVER.	
AQCR	Site Location	Current Month	Year- to-Date	Running		No. of Mons. of Data	Comments
141	Oustfall-tons/so Mountain States Great Falls	. mile 10.79	21.62	21.62	17.10	5	
	Fire Sta. #1 Great Falls	6.55	37,20	37.20	15.09	5	
140	Sulfation Rate - 1 mile NE Coop Billings	mg 0 <sub>3</sub> /10 0 <sub>4</sub> 21	0 sq. cm 1.09	1.09	0.21	5	
	E of Laurel Billings	0.30	1.43	1.43	0.91	5	
	Stock Car Track ( Great Falls Phillips Ref. N Phillips Ref. E Great Falls	0.589 0.503	0.617 0.503	0.617 .503	0.303 0.339	4 5	
	Microwave East Helena 212 E. Pacific	0.13	0.56	0.56	25.8	5	
	East Helena East Stack Sta. East Helena	0.23	0.47	0.47	30,2	5	
	Broudy Ranch East Helena	0.07	0.27	0.27	11.8	5	
	2580 Prickly Pear East Helena	0.15	0.31	0.31	17.4	5	

AREA		HIGH I	READING		ARITHMES	TIC AVER	
AQCR	Site Location	Current Month	Year- to-Date	Running Year	Year- to-Date	No. of Mons. of Data	Comments
	Fluoride Papers	- ma/sa.	cm/30 da	vs			
44	Oehlbom's Mt Box	1.07	1.07	1.07	0.77	5	
	Flathead Co.				5.91	5	
- 1	Anaconda South Flathead Co.	11.42	11.42	11.42	5.91	°	
	Glacier Park #1	0.26	0.69	0.69	0.43	5	
	Glac. Nat. Park						
	Glacier Park #2	0.24	0.41	0.41	0.27	5	
	Glac. Nat. Park		0.36	0.36	0.31	5	
	Glacier Park #9 Glac. Nat. Park	0.27	0.36	0.36	0.31	9	
	Fluoride Plates	mo/so.	cm/30 da	vs			
44	Anaconda South	26.22	26.22	26,22	9.41	5	
	Flathead Co.					5	
	Trailer - NAAC Flathead Co.	1.73	1.73	1.73	1.25	5	
	Glacier Park #1	0.47	0.86	0.86	0.39	4	
	Glac. Nat. Park	0.47	0.00	0.00		'	
	Glacier Park #2	0.39	0.54	0.54	0.35	5	
	Glacier Park #9	0.26	0.26	0.26	0.21	5	
	Glac. Nat. Park S02 Bubbler - pp		i				
143	Border Site	0.0	0.0	0.0	0.0	5	
	Scobey					l	
	NO2 Bubbler - pp		0.01	0.01	0.0	5	
143	Border Site Scobey	0.0	0.01	0.01	0.0		1
	scopey		l		1		1

<sup>\*\* -</sup> sample lost - no data.

